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Or

SHAFFER'S TROPICAL GARDENS

INCORPORATED
P. O. BOX 368
CAPITOLA, CALIFORNIA

SHAFFER'S ORCHIDS 1961

Our Cover

On the front cover is pictured Phalaenopsis Ramona 'Perfection' AM/AOS - AM/ODC. We feel confident that this plant will prove to be one of the truly fine parents of future Phalaenopsis.

On the rear cover is pictured a seedling flowering for the first time of our cross No. 216, Star of Santa Cruz (see page 7).

We hope that you, our customers, will feel free to stop in at the nursery whenever you are in our area so that our staff may show you the many plants which are far too numerous to list in our catalog.

It is with deep appreciation for past patronage that we present to you, this, our 1961 catalog.

SHIPPING INSTRUCTIONS

Packing is free of charge for all plants listed here. Prices F. O. B. Santa Cruz, California. In California, add 4% state sales tax.

In order to avoid unnecessary delays and misunderstandings, please specify clearly method of shipment. We recommend that all shipments east of the Mississippi and to foreign countries, be made by Air.

California purchasers will be pleased to learn that their plants will not be delayed for inspection on arrival in any County in California except Ventura, and Tulare Counties, which are not yet in the "Pinto Tag" program. The "Pinto Tag" on your shipment certifies that our greenhouses have been California State inspected and certified clean.

Miltonia Seedlings

The popularity of the PANSY ORCHID has risen greatly in the past few years. This, we feel, is mainly due to the ease of growing in fir bark. The coolest and darkest part of the Cattleya house will suit them nicely.

The following plants are in 3" pots, 2 to 3 bulbs and are priced at $7.50 each.

31—WYCH CROSS X SELF
Wych Cross is a well-known yellow Miltonia. Seedlings should vary from cream to yellow.

33—LINGWOOD X LYCEANA 'STAMPERLANDS' FCC/RHS
Solid red crossed with red with white margin.

34—LYNWOOD (LIMELIGHT X H. T. PITT)
Shades of red.

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45—LYNWOOD X WOODLANDS 'EBONY'
Very fine dark reds should come from this cross.

49—SOLFATARI X WOODLANDS 'EBONY'
Fine yellow crossed on the best red. Could be some unusuals.

51—FIREFLY AM/AOS X WOODLANDS 'EBONY'
Fine dark reds.

Miniature Cymbidium Seedlings

THESE SEEDLINGS ARE 8"-10" HIGH WITH THE FIRST BULB FORMED
PRICE $3.50 EA. OR 10 FOR $30.00

57-58—SAIGON X PUMILUM
Saigon is a very free flowering and prolific deep burgundy colored diploid. Crossed with the miniature Pumilum, there will be colors ranging from pink through rose and red.

58-41—SUSETTE X PUMILUM
This cross will produce charming miniature flowers in all shades of pink from very pale to deep rose. These are always popular with the fair sex.

57-49—PUMILUM X JUANITA
Juanita is a large light green with beautiful form. These seedlings seem to be larger growing than our other miniatures and we are waiting to flower this cross with much anticipation. The plants are very uniform in growth and we feel that the Juanita parent may be a tetraploid.

FOR OUR FRIENDS OVERSEAS

If dollars are hard to get, we now can accept British Pounds for deposit to our account at the Bank of America, West End Branch, London W., England.

Cymbidium Seedlings

Size	Price per each	Price per 10
6" to 10" leaf length	$2.00	$17.50
12" to 18" leaf length	$3 50	$30.00
1 bulb and growth	$6.00	$55.00
2 bulbs and growths	$10.00	$90.00

ALEXANDERI 'WESTONBIRT' FCC/RHS X INDIO 'TORCH'
Blushes, pinks, and rose should be the results of crossing our deep red Indio on the famous Alexanderi 'Westonbirt'. Plant are vigorous growers, and, on looking at the parentage of Indio, we feel confident of the results. Indio is a cross of Sunrise X Ceres. When Sunrise was crossed with Alexanderi, it produced the colorful Lady Moxhams, and when Ceres was crossed with Alexanderi, Louis Sander was the result. 'Nuff said! Sizes 6" - 10", 12"-18", 1 bulb and growth.

ALEXANDERI 'WESTONBIRT' FCC/RHS X CYZARA 'REMEMBRANCE' AD/NSW
Here we have crossed the deep pink Cyzara on Alexanderi in an attempt for pink flowers for the Valentines Day trade. Cyzara is a cross of Albania X Ceres and tends to flower at our nursery in January. It carries a very erect spike of 13-14 flowers. Size 12"-18". 1 bulb and growth.

CHESHAM 'GREEN VALLEY' X BABYLON 'CASTLE HILL' FCC/RHS
Possibilities for a large number of polychrome flowers are excellent in this cross. Chesham is a medium sized light green flower of heavy substance. Crossed with Babylon, there should be some real unusuals. Size 12"-18". 1 bulb and growth.

ALRITA (Alexanderi 'Westonbirt' FCC/RHS X Rio Rita 'Radiant' FCC/RHS)
This we feel is one of the most promising crosses we have to offer. Rio Rita is a very fine shaped rose pink with from 22-28 flowers on a long graceful spike. Seedlings are wonderful growers. Colors will range from blush through all shades of pink. Should be some real bell ringers here. Size 12"-18". 1 bulb and growth.

ARABIAN NIGHTS
(Balkis 'Silver Orb' AM/AOS X Sussex 'Glendessary'

In our opinion this form of Sussex is one of the most remarkable diploids in existence. It opens cream in color and gradually fades to a pure white. We have seen this plant with 32 flowers on one stem. All flowers were open and not one of them showed any sign of spotting. Crossed with the famous Balkis 'Silver Orb', we expect a very high percentage of exhibition and top quality cut flowers.

Plant size 12"-18" tall — priced at $5.00 each
(LIMITED SUPPLY)

DECEMBER AND JANUARY BLOOMING HYBRIDS

SAN MIGUEL (Doris Aurea 'F. J. Noonan' X Sicily)
This is a remake of a well-known, early blooming cross. Flowers are very large and come in many shades of green and yellow. Size 6"-10".

DORIS AUREA 'F. J. NOONAN' X RIO RITA 'RADIANT' FCC/RHS
This Doris Aurea is a very large bronze flower with a striking maroon band on the lip. Crossed with Rio Rita, there should be a high percentage of good quality, early blooms in shades of pink or rose. Size 6"-10".

DORIS AUREA 'F. J. NOONAN' X CRESTA AM/RHS
Cresta is a medium sized flower of exceptional substance. It is pure white in color and flowers early because of its grandiflorum parent. Seedlings of this cross should come mainly in shades of yellow with a possibility of a few pinks. Size 6"-10".

Cymbidium Seedlings

SEEDLINGS FLOWERING IN BEDS

MAYFAIR X BABYLON 'CARPENTIERS'
Mayfair is a deep red. In combination with the well known Babylon 'Carpentiers' there will be a high percentage of deep rose blooms on tall spikes of 20 flowers or more. 1 bulb and growth.

GRACE MITCHELL (Alexanderi 'Westonbirt' FCC/RHS X Apollo 'Exbury' FCC/RHS)
Apollo is being used quite extensively in modern Cymbidium breeding because of the fine shape imparted in its progeny. When crossed with Alexanderi, colors range mainly in shades of yellow with a few blushes and whites. Sizes 12"-18". 1 bulb and growth.

ALEXANDERI 'WESTONBIRT' FCC/RHS X SELF
The most widely used and successful Tetraploid Cymbidium of all time has been selfed in an attempt to produce Tetraploid seedlings which could become even more successful as breeders than their famous parent. Many will probably be fuller flowers than 'Westonbirt'. Sizes 6"-10", 12"-18". 1 bulb and growth.

FANTASIA (Susette X Babylon 'Castle Hill" FCC/RHS)
Will be lots of color in this cross. Susette is a deep pink and when crossed with the Tetraploid Babylon it will produce vigorous plants with heavy spikes of rich pink and rose blooms. Should be a very free bloomer. 1 bulb and growth.

APOLLO 'EXBURY' FCC/RHS X BABYLON 'CASTLE HILL' FCC/RHS
Yellows, Pinks, and unusuals with some of the most outstanding lips ever seen should be produced in the mating of these two well-known parents. Terrific spikes with many flowers of large size. Size 12"-18". 1 bulb and growth.

APOLLO 'EXBURY' RHS/FCC X ROSANNA 'PINKIE' RHS/FCC
Apollo 'Exbury' has recently been used more and more and imparts to its seedling that deep red lip that is so outstanding. With Rosanna 'Pinkie' as the pollen parent, we should have extra fine shape too. Expect whites, very light greens and some flush pinks. Size 12"-18". 1 bulb and growth.

CONINGSBYANUM 'EXBURY' X ROSANNA 'PINKIE' RHS/FCC
When Coningsbyanum was used with Alexanderi 'Westonbirt' RHS., FCC., Cygnus was produced. Cygnus seedlings have received 16 awards since 1951. Now we have it crossed with Rosanna 'Pinkie' and feel that the seedlings will be even better. Expect whites and blush pinks. Size 12"-18". 1 bulb and growth.

CHIRBROOK 'MALIBU' X ROSANNA 'PINKIE' RHS/FCC
The Chirbrook used here was a buff pink with good flower production. Used with Rosanna 'Pinkie', we should get a great many fine blush pink with some whites. Shape and substance should be good. Size 12"-18". 1 bulb and growth.

ANN GREEN (BABYLON 'CARPENTIERS' X ROSANNA 'PINKIE' FCC/RHS)
Tetraploid crossed on tetraploid. Possibility of some fine parent material. The Babylon should increase the number of blooms and impart its pink coloring while the Rosanna contributes size, form and substance. Size 6"-10".

Phalaenopsis Seedlings

Leaf Span	Price Per Each	Price Per 10
3"-4"	$2.50	$22.50
5"-6"	$4.00	$35.00
7"-8"	$6.00	$55.00

EXHIBITION WHITES

Here, we feel are some of the most outstanding crosses being offered anywhere. All should produce a multitude of large, heavy substanced white flowers.

Quality is no accident—Award flowers are the result of planned breeding.

58-18—GRACE PALM

This is a remake of perhaps the most famous Phalaenopsis of all time. The large heavy flowers make it an outstanding commercial as well as show flower.
Here we have crossed Doris 'Jean' with Winged Victory 'Purity', which is the finest Winged Victory we have ever seen, bar none. Size 5"-6", 7"-8".

58-10—DOS PUEBLOS

Crossing Doris back onto Grace Palm tends to bring out more of the well-known Doris shape while still maintaining the vigor of the Winged Victory grandparent. In this instance we used Grace Palm 'Gigantic', a 5½" flower, with our Doris 'Jean'. This Grace Palm is the most vigorous plant in our collection with sprays up to 5 feet long. Should be some real show pieces here. Size 5"-6", 7"-8".

57-30—DOS PUEBLOS

Not quite as large as the above cross, but likely to be a litle heavier. In this we used Grace Palm 'Shadycrest' with Doris 'Capitola'. Flowers will be long lasting. A really fine commercial cross. Size 5"-6", 7"-8".

58-9—ELINOR SHAFFER (Juantia 'Snowball' HCC/AOS X Doris 'Jean')

Two of the world's finest hybrids mated for even further improvements. Doris, of course, needs no description. Juanita is a Shaffer introduction which caused quite a sensation during the Spring of 1958 when one of these won honors as the best American bred orchid at the Western Orchid Congress. Quite a number of these seedlings are being grown here for our own cut flower and exhibition purposes, and we are so confident in its results that the cross has already been remade. Size 5"-6", 7"-8".

59-5—JUANITA 'SNOWBALL' HCC/AOS, ODC X GRACE PALM 'GIGANTIC' HCC/AOS, ODC

Here is a tremendously fascinating cross, the 5½" Grace Palm crossed on our very fine shaped 4½" Juanita. Either flower is wonderful by itself, but the progeny produced by their mating could be even better. Size 3"-4".

59-6—JUANITA 'SNOWBALL' HCC/AOS, ODC X TOMMY TUCKER 'MONARCH' AM/AOS, SC/ODC

This Tommy Tucker is the same one that was used in making our very successful Ramonas. Flowers should be very flat with full form and wonderful spike habit. Size 3"-4".

59-7—GRACE PALM

A remake of this famous cross using Doris 'Jean' and Winged Victory 'Admiral' Bronze/ODC. We feel that remaking crosses of this type is very worthwhile when one or both parents are superior to the original parents. Size 3"-4".

JUANITA 'SNOWBALL' HCC/ODC, HCC/AOS

Phalaenopsis Seedlings

PINKS

58-3—ELISA (Grace Palm 'Gigantic' X Aalsmeer Rose 'Bleeding Heart')

The mating of our largest white with the deepest rose in our collection has produced some of the finest large pinks to date. Grace Palm 'Gigantic' carries a spike of from 20-24 flowers up to 5½" across. In any cross of this type we would suggest raising more than 1 or 2 to select the really fine ones. Sizes 7"-8" and Selected Plants $10.00 to $25.00.

58-2—RAYCRAFT (Aalsmeer Rose 'Bleeding Heart' X Doris)

Here we have used the same deep Aalsmeer Rose as in the above cross, but have used a fine Doris as the other parent. This cross may prove to be the finer of the two in shape, but probably will be a little smaller. Size 5"-6".

58-127—ROSWELL (Ruby Wells X Aalsmeer Rose)

Our two finest rose pinks are mated here to produce plants which will have large branching sprays of medium sized, deep colored flowers. On mature plants these Phalaenopsis will bear from 80 to 100 blooms at one time. Size 3"-4".

Phalaenopsis Flasks 500cc

AVAILABLE FOR EARLY SPRING DELIVERY ONLY

60-19—RAMONA 'PERFECTION' AM/AOS X JUANITA 'SNOWBALL' HCC/AOS—HCC/ODC

Here are two marvelous Phalaenopsis combined to produce beautifully formed flowers with heavy substance and smooth texture. We can think of no other combination which holds more promise than this one.

60-20—RAMONA 'PERFECTION' AM/AOS X WINGED VICTORY 'PURITY'

Winged victory 'Purity' has been counted within the past year and found to be a tetraploid. It is a very overlapped flower with extra heavy substance. Crossed with Ramona 'Perfection', we expect very fine flowers for both cut flower and show purposes.

Flasks are Priced at $35.00 each or 3 for $100.00

Unusual Phalaenopsis Seedlings

216—STAR OF SANTA CRUZ (Nasu Tomaguchi X Lueddemanniana)

Wonderfully different! Flowers are 3½"-4" across and somewhat starry shaped. Substance is terrific. Colors range from white with a few pink spots and a colored lip to some which appear completely pink because of the dense spotting. Keeping quality is superior to anything we have ever seen in Phalaenopsis. One of these is shown on our back cover.

PLANTS 7"-8" ACROSS — $10.00 EACH

58-122—DOLORES 'PINK LIP' X ROSYPAM

Rosypam is a very charming light pink flower with a very dark purple-red lip. The flower is about 2 inches across and the spike is branching, carrying an abundance of blooms. Crossed on Dolores, we expect a good percentage of white flowers with red or pink lips. Size 3"-4" — $2.50 each.

59-12—SALLY LOWREY X DOLORES 'PINK LIP'

This line of breeding has produced approximately 25 to 30 percent of the progeny with colored lips. Flowers are from 3 to 4 inches across, many with excellent form. Size 3"-4" — $2.50 each.

58-85—GOLDEN LOUIS (DORIS X MANNII)

We have been fortunate in being able to remake this new yellow Phalaenopsis, and in getting enough seedlings to make a general offering. Flowers are from 3"-3½" across with a somewhat starry shape. Color is a pleasing soft yellow. Don't delay as they are going to go fast. Leaf span of plants, 2½"-3½" — $5.00, 5"-6" — $7.50.

The following 3 crosses will be available June 1st in the 3"-4" leaf spread size at $5.00 each.

59-79—JUANITA X MANNII

This cross will be much like Golden Louis and Golden Palm. The Juanita used here, though not as large as some, is, in our estimation, one of the finest formed flowers we have seen.

59-80—JUANITA X LUEDDEMANNIANA 'OCHRACEA'

The same Juanita was used in this cross as in #59-79. Lueddemanniana 'Ochracea' is a yellow flower with chestnut colored barring. Progeny could range from all yellow or cream to yellow with spots or stripes.

58-82—RAMONA 'PERFECTION' AM/AOS X LUEDDEMANNIANA PULCHRA 'PURPUREA'

The pod parent of this new cross is featured on the cover of this year's catalog. Lueddemanniana Pulchra 'Purpurea' is the solid maroon form of Lueddemanniana which caused quite a stir during the World Orchid Congress in Honolulu a few years ago. The progeny will, in all likelihood, not be solid colored but will will surely be very heavily spotted or barred with pink or red.

Cattleya Hybrid Seedlings

LC. MATILIJA X LC. ACONCAGUA

Whites with colored lips are still in short supply. We feel that this cross will produce some very fine flowers as both parents were outstanding. Pot Size 2" — $2.50.

C. PAUL T. YAMADA X C. GENERAL PATTON

C. Paul T. Yamada is Bow Bells X White Bell. This particular clone is a very full heavily frilled flower. Stem length and vigor should be greatly increased by the General Patton. Pot size 2" — $2.50.

C. MEM. CLARK DAY, SR. (Bob Betts 'Jeanette' AM/AOS X Loddigesii 'Stanley's' FCC/RHS)

We are looking for semi-cluster type flowers for the spring season. Form and substance will be excellent. Flowers should be a little larger than Henrietta Japhet. This should be a wonderful cut flower. Pot size 3" — $5.00.

LC. BUCANEER X LC. PACIFIC

LC. Pacific is a deep red-purple with a very heavy substance. Its parentage is LC. Medon X LC. Atlantis. Because of the yellow blood in Medon we feel that the deep red coloring will carry through to further generations. The Bucaneer is a medium sized flower with beautiful form and a round ruffled lip. Pot Size 1½" — $2.00.

SL. PSYCHE

Here is a remake of a famous cross. Flowers are small and range in color from orange to red. SL. Psyche is in the background of many famous Sophros. Pot size 1½"—$2.00.

C. PRINCESS BELLS (C. Empress Bells X C. Bob Betts)

Several plants of Princess Bells have been shown throughout the country in the past year and it appears that this white Cattleya is destined to become as famous as its distinguished parents. Near to blooming size plants in 5" pots — $12.50 each.

LC. ROYAL VENUS (LC. Morning Star X LC. Potentate)

This cross was made to supply flowers for the summer season when Cattleyas are so scarce. Shape should be excellent, colors will range from medium to dark lavender with a dark contrasting lip. Plants in 5" pots — $12.50 each.

LC. MY FANCY (LC. Molly Tyler FCC/AOS X LC. Camolty)

LC. Camolty is half Molly Tyler. Here it has been crossed back onto Molly Tyler to increase the number of flowers and deepen the color of this already brilliant purple cluster type Cattleya. 5" pots — $12.50 each.

Vanda Seedlings

THESE PLANTS ARE IN 6" AND 7" POTS AND

ARE PRICED AT $7.50 EACH

As most collectors are interested only in large well-shaped flowers, we are listing only those hybrids with Sanderiana as the primary parent on one side.

MABELMAE KAMAHELE (OHUOHU X SANDERIANA)
Similar to Sanderiana

AFTERGLOW (INSIGNIS X SANDERIANA)
Brown to red. Good shape.

NELLIE MORLEY (EMMA VAN DEVENTER X SANDERIANA)
World famous pink semi-terete.

KOHALA (CAROLE HIRANO X SANDERIANA)
Pink to blue.

OHUOHU (C. S. FISHER X SANDERIANA)
Much like Sanderiana.

ERNEST FUJINAGA (CAROLINE ROBINSON X SANDERIANA)
Blue and greenish shades.

OPSISANDA JULIET KIMBALL (VANDOPSIS GIGANTEA X V. SANDERIANA)
Yellow to cream.

ODONTOGLOSSUM CRISPUM SEEDLINGS

These plants are 1 or 2 bulb seedlings out of 2 inch pots and are priced at
$5.00 EACH OR 5 FOR $22.50

7032—ODM. CRISPUM — Mainly White Flowers.

7093—ODM. JEROME X ODM. CRISPUM — Light shades, some markings.

7128—ODM. PESCATOREI — White or rose flush, some spotting possible.

7198—ODM. LAUTRIX X ODM. OPHEON — Flowers dark and large.

7212—ODM. OPHEON X ODA. GERAGIA — Variable from light to dark.

7221—ODA. ELPHION X ODM. OPHANTO — Maroon to dark red.

We are having good results growing Odontoglossums in straight fir bark with temperatures ranging from a low of 55° to a high of 80°. They should be kept moist at all times and fed regularly. 1000 to 1500 foot candles of light seems to be conducive to heavy spikes and large flowers.

Orchid Spoonit

FOR ORCHIDS IN FIR BARK

ORCHID SPOONIT (30-10-10, PLUS CHELATED IRON)

A highly concentrated, soluble fertilizer for Orchids growing in Bark. Nitrogen is in three forms . . . Nitrate (3%) and Ammonic (3%), and Organic Nitrogen (24%) to assure long-lasting effect. Phosphoric Acid (10%) is in a completely soluble form, as is also potash. Potash (10%) is derived from Nitrate of Potash and is in a form that will assure a low Chlorine level. CHELATED IRON is in a form that will assure soluble iron regardless of pH of water supply.

ORCHID SPOONIT is quickly and completely soluble and is to be used only in solution . . . NOT IN DRY FORM. Use at rate of one teaspoonful to a gallon of water, or two cupfuls in 100 gallons of water EVERY 15 DAYS.

QUANTITY	PRICE	SALES TAX (Calif. only)	SHIPPING WEIGHT (For Postage)
1 lb.	$1.25	.05	2 lbs.
2½ lb.	2.50	.10	3 lbs.
10 lbs.	8.00	.32	13 lbs.
25 lbs.	16.00	.64	27 lbs.

PLEASE ADD POSTAGE TO ORDER

HYDROMIX *Automatic Fertilizer*

The new invention that does Fertilizing Chores Automatically!

Here's the sensational new aid that has revolutionized Fertilizing. The HYDROMIX AUTOMATIC FERTILIZER attaches to ANY faucet, hose or sprinkler system in one simple, 30 second operation. Then all you do is let this amazing invention handle your Fertilizing chores for you safely, quickly, **Automatically.** Made from strong, durable plastic and reinforced with a brass hose connector —the HYDROMIX AUTOMATIC FERTILIZER is especially designed for use with soluble orchid fertilizers. It mixes scientifically and accurately one part of concentrated chemicals to 100 parts of water — under any average water pressure—without danger of feedback.

The HYDROMIX AUTOMATIC FERTILIZER works with any hose nozzle, sprinkler or plastic soaker and may be attached at the house water faucet, between lengths of hose or at the end of the hose. When used with HYDROMIX insecticides it's practically as good as a power sprayer.

HYDROMIX AUTOMATIC FERTILIZER—$3.95 each

CALIFORNIA FIR BARK

Three cubic foot sacks $2.25 F.O.B. Santa Cruz—Shipping weight 65 lbs.

SHAFFER'S

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